Module 3 Assignment – Problem 3

The detailed grain is the combination of individual supplier, individual product, and date are-

- 1. 350 Franchise Rows and 200 Franchise Postal Codes, Total = 350
- 2. Sparsity estimate:
 - 1 (fact table size / product of dimension)
 - (1 (610000 / (350*21*500*80000*365)) = 0.99999999431
 - The data cube has less than 1% non zero cells.
- 3. 20 Service Category Row,1 Special Event Row Total = 21
- 4. Days per year: 365, Total = 365
- 5. 50000 Member Rows, 150 Member Rows* 200 Franchises, 10 Member Type, 500 Member Zip Codes Rows, Total = 50000 + 150*200 = 80000
- 6. 500 Merchandise Rows, Total= 500
- 7. 100,000 Service Purchase Rows,(300*200) Special Events Purchase and 450,000 Contains Rows
- 8. Total Fact Table Size Increase = 100000 + 450000 + 60000 = 610000